Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2019

Course: Business Intelligence Program: B.Tech (OGI)

Semester: 8th Time 03 hrs.

Course Code: CSIB 383 Max. Marks: 100

Instru	ctions: (All questions are compulsory)		
	SECTION A		
		Marks	CO
Q 1	Explain Centralized and Decentralized BI.	4	CO1
Q 2	Describe Outlier Analysis and its applications.	4	CO3
Q 3	Discuss the issues related to Data Mining.	4	CO2
Q 4	Compare OLAP and OLTP.	4	CO1
Q 5	Explain Data Warehouse (DWH). What are the advantages and disadvantages of using DWH?	4	CO1
	SECTION B		
Q 6	What is K-means clustering? Use K-means algorithm to create three clusters for the given set of values {1, 5, 7, 10, 19, 20, 31, 39, 40}.	10	CO4
Q 7	Explain the classifier accuracy evaluation techniques.	10	CO5
Q 8	What is structured data? Explain its sources and how it can be managed?	10	CO2
Q 9	Write short notes on: a) Regression b) Analytics c) Risk Management and Mitigation	10	CO3
	OR		
	Design a BI system for fraud detection in Banking by describing all the steps from Data Collection to Decision Making.	10	CO3
	SECTION-C		
Q 10	Build a prototype dashboard which will provide a hospital with features and performance that meet their objectives. Use any Data mining technique.	20	CO4
Q 11	Explain Density and Distribution Clustering. Consider the similarity matrix given below.	20	CO5
			1

	P1	P2	P3	P4	P5	P6	
P1	0.70	0.40	0.65	0.05	0.20	1.00	
P2	0.40	0.65	0.35	0.20	1.00	0.70	
P3	0.65	0.05	0.20	1.00	0.70	0.40	
P4	0.05	0.20	1.00	0.85	0.40	0.65	
P5	0.20	1.00	0.70	0.40	0.65	0.05	
P6	0.05	0.35	0.40	0.65	0.85	1.00	
			OR				
a) S	ort notes on spatial Data Meriodic craw	Mining		er			

Model Question Paper (Blank) is on next page

Name:	UPES
Enrolment No:	UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2019

Course: Business Intelligence
Program: B.Tech (OGI)
Course Code: CSIB 383
Semester: 8th
Time 03 hrs.
Max. Marks: 100

	ctions: (All questions are compulsory) SECTION A		
		Marks	CO
Q 1	Briefly explain all the data stream methodologies.	4	CO1
Q 2	Explain OLAP operations also state its applications.	4	CO5
Q 3	How mining sequence patterns in transactional Databases is done?	4	CO3
Q 4	Compare Database and Data-warehouse.	4	CO1
Q 5	Explain SAAS. What are the advantages and disadvantages of using SAAS?	4	CO1
	SECTION B		
Q 6	What is K-means clustering? Use K-means algorithm to create three clusters for the given set of values {2,4,6,7,9,10,11,15,29,40}.	10	CO4
Q 7	Explain the use of BI for Process improvement.	10	CO2
Q 8	What is semi-structured data? Explain its sources and how it can be managed?	10	CO2
Q 9	Write short notes on: d) Classification e) Prediction f) Clustering	10	CO3
	OR		
	Design a BI system for fraud detection by describing all the steps from Data Collection to Decision Making.	10	CO3
	SECTION-C	-	
Q 10	Build a BI report which will provide ecommerce company with features and performance that meet their objectives. Use any Data mining technique.	20	CO4
Q 11	Explain Hierarchical clustering. Consider the similarity matrix given below. Show the hierarchy of clustering created by the single-link clustering algorithm.	20	CO5

	P1	P2	P3	P4	P5	P6	
P1	1.00	0.70	0.65	0.40	0.20	0.05	
P2	0.70	1.00	0.95	0.70	0.50	0.35	
P3	0.65	0.95	1.00	0.75	0.55	0.40	
P4	0.40	0.70	0.75	1.00	0.80	0.65	
P5	0.20	0.50	0.55	0.80	1.00	0.85	
P6	0.05	0.35	0.40	0.65	0.85	1.00	
	ort notes on	the following	OR g:				